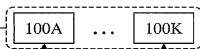
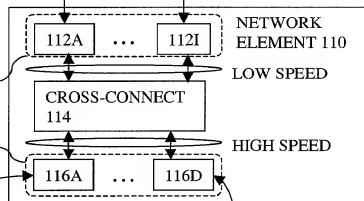


CUSTOMER
PREMESIS
EQUIPMENT



LINEAR
INTERFACES

RING
INTERFACES



NETWORK
ELEMENT
110

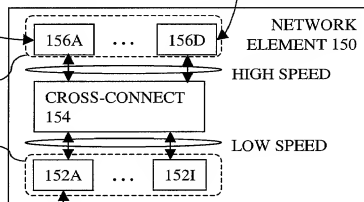
NETWORK
ELEMENT
140

RING 145

HUBBED
NETWORK
OFFICE

RING
INTERFACES

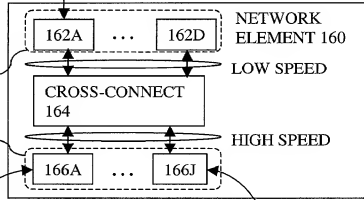
LINEAR
INTERFACES



NETWORK
ELEMENT
150

LINEAR
INTERFACES

RING
INTERFACES



NETWORK
ELEMENT
160

RING 165

FIG. 1 (PRIOR ART)

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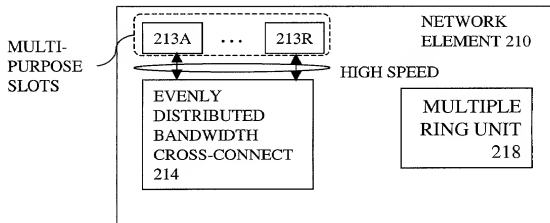


FIG. 2

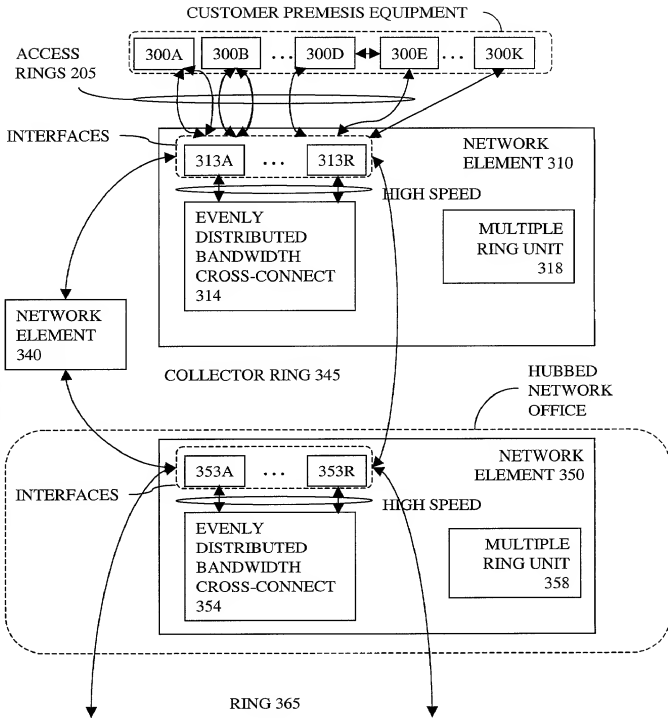


FIG. 3

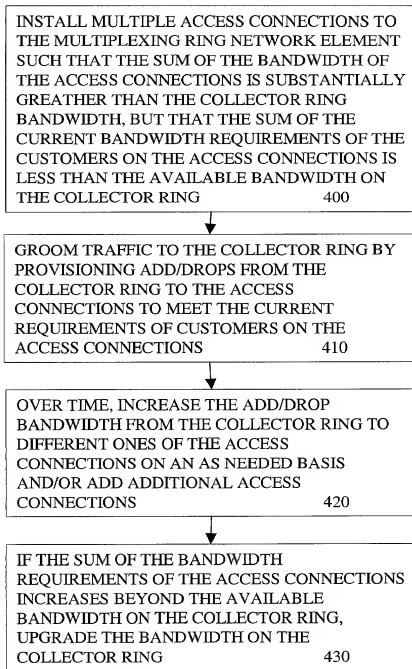


FIG. 4

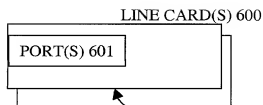


FIG. 6A

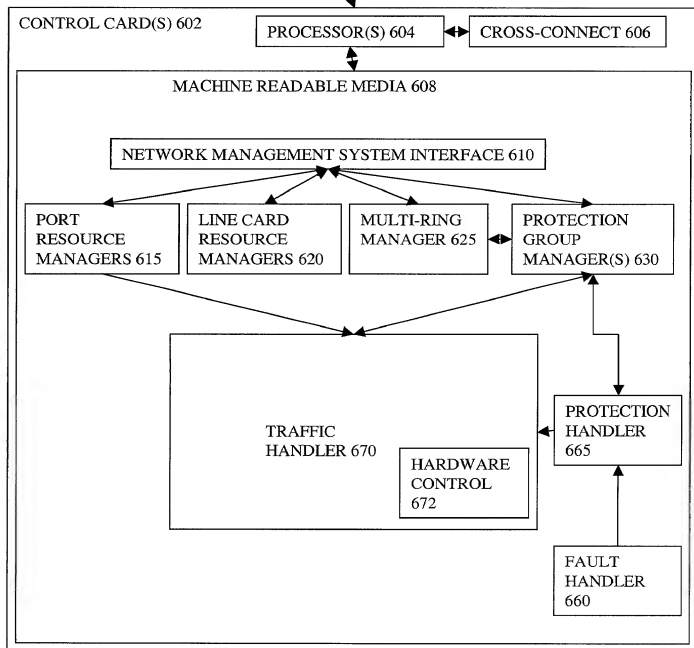


FIG. 6A

FIG. 6B

PROTECTION GROUP MANAGER 630A

PROTECTION GROUP ID 632
RING ID 634
APS NODE ID 636
GROUP ATTRIBUTES 638

RING MAP 640

DIRECTION 642
NUMBER OF APS NODES 644
LIST OF APS NODE IDS 646

WEST PROTECTION UNIT (WHICH
LINE CARD AND WHICH PORT) 650

EAST PROTECTION UNIT (WHICH
LINE CARD AND WHICH PORT) 655

SQUELCH
TABLE 652

SQUELCH
TABLE 656

09823671-033001

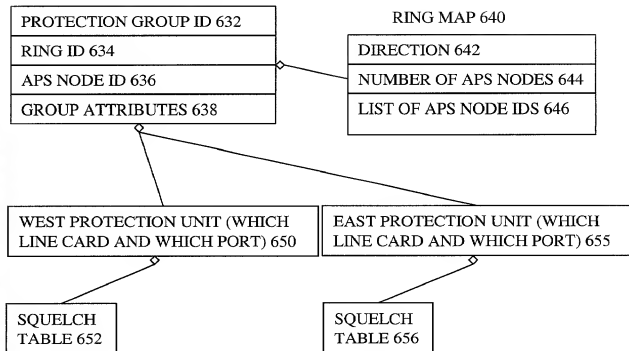


FIG. 9A (PRIOR ART)

